

118. (Original) The method of claim 117, wherein the *attB* recombination sites which recombine with each other have identical seven base pair overlap regions.

119. (Original) The method of claim 115, wherein the joined cDNA molecules contain between about 10 and about 30 nucleotides which corresponds to the RNA obtained from the cell or tissue.

120-142. (Canceled)

143. (Currently Amended) ~~The method of claim 7, wherein said recombination between the one or more recombination sites of the members of said at least first population and the one or more recombination sites of the at least one target nucleic acid molecule occurs *in vitro*.~~

A method of producing a population of hybrid nucleic acid molecules comprising:

- (a) mixing at least a first population of nucleic acid molecules, wherein one or more nucleic acid molecules of said population comprises one or more recombination sites, with at least one target nucleic acid molecule comprising one or more recombination sites;
- (b) causing some or all of the nucleic acid molecules of the at least first population to recombine *in vitro* with all or some of the target nucleic molecules, thereby forming the population of hybrid nucleic acid molecules; and
- (c) selecting for the population of hybrid nucleic acid molecules and against the first population of nucleic acid molecules and against the target nucleic acid molecules.

144. (Currently Amended) ~~The method of claim 60, wherein said recombination between the at least one recombination site of the first population to create a second population occurs *in vitro*.~~

A method of cloning at least one nucleic acid molecule comprising: